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L4 4 L3

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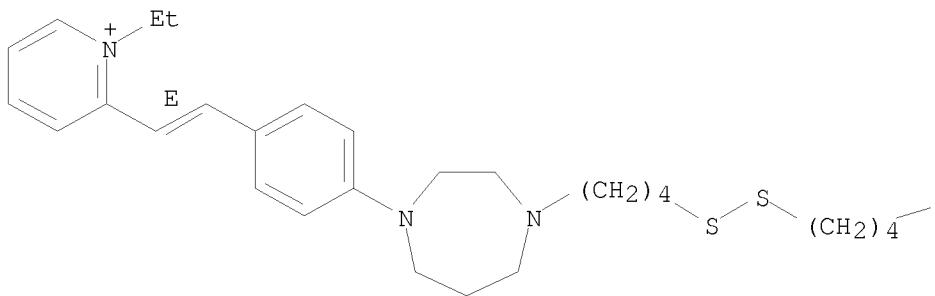
L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2007:1116944 CAPLUS
 DOCUMENT NUMBER: 147:412670
 TITLE: Method of dyeing and lightening keratin materials in
 the presence of a reducing agent comprising a
 fluorescent disulfide dye
 INVENTOR(S): Daubresse, Nicolas; Greaves, Andrew; Samain, Henri
 L'Oreal, Fr.
 PATENT ASSIGNEE(S):
 SOURCE: PCT Int. Appl., 78pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 13
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007110542	A2	20071004	WO 2007-FR51008	20070323
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
FR 2898903	A1	20070928	FR 2006-51035	20060324
PRIORITY APPLN. INFO.:			FR 2006-51035	A 20060324
			US 2006-792941P	P 20060419

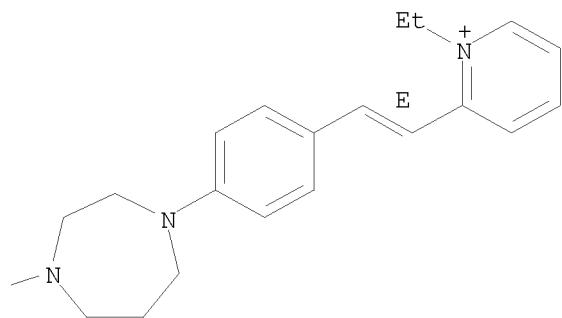
OTHER SOURCE(S): MARPAT 147:412670
 AB The invention relates to a dyeing composition comprising a fluorescent disulfide dye, and to a method of dyeing plus lightening of keratin fibers, employing the said composition. It also relates to new fluorescent disulfide dyes and to their uses in the lightening of keratin materials. The said composition makes it possible to obtain a particularly long-lasting lightening effect. Thus, 1,1'-(disulfanediylidethane-2,1-diyl)bis(2-{(E)-2-[4-(dimethylamino)phenyl]vinyl}pyridinium) dibromide (I) was prepared by the reaction of 4-dimethylaminobenzaldehyde with 1'-(disulfanediylidethane-2,1-diyl)bis(2-methylpyridinium) dibromide (preparation given). Formulation of a hair preparation containing 10-3 mol% of I is disclosed.
 IT 950781-80-3D, salts 950782-56-6D, salts
 RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (method of dyeing and lightening keratin materials in presence of reducing agent comprising fluorescent disulfide dye)
 RN 950781-80-3 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

Double bond geometry as shown.

PAGE 1-A



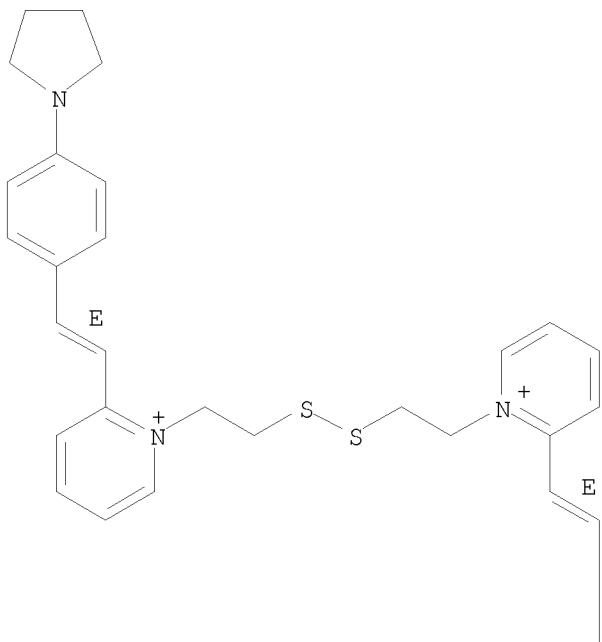
PAGE 1-B



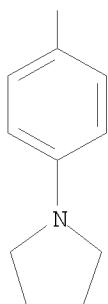
RN 950782-56-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

Double bond geometry as shown.

PAGE 1-A



PAGE 2-A



L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2007:1116756 CAPLUS
 DOCUMENT NUMBER: 147:412663
 TITLE: Hair dye composition containing a thiol/disulfide
 fluorescent dye comprising a heterocycle, with an
 internal cationic charge
 INVENTOR(S): Greaves, Andrew; Daubresse, Nicolas
 PATENT ASSIGNEE(S): L'Oreal, Fr.
 SOURCE: PCT Int. Appl., 58pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 13

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007110539	A2	20071004	WO 2007-FR51005	20070323
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
FR 2898903	A1	20070928	FR 2006-51035	20060324
PRIORITY APPLN. INFO.:			FR 2006-51035	A 20060324
			US 2006-792941P	P 20060419
			FR 2007-53072	A 20070205
			US 2007-900363P	P 20070209

OTHER SOURCE(S): MARPAT 147:412663

AB The invention relates to a dyeing composition containing a thiol/disulfide fluorescent colorant comprising a heterocycle, and to a method for coloring keratin materials, especially keratin fibers, particularly human keratin fibers such as hair, with a lightening effect, using said composition. The invention also relates to novel thiol/disulfide fluorescent colorants and the uses thereof for lightening keratin materials. Said composition produces a lightening effect which is especially tenacious and visible on dark keratin fibers. Thus, 1,1'-(disulfanediylidiethane-2,1-diyl)-bis{4-[(E)-2-(4-pyrrolidin-1-ylphenyl)vinyl]pyridinium} dimethane sulfonate (I) was prepared by the reaction of 4-(1-pyrrolidino)benzaldehyde 1,1'-(disulfanediylidiethane-2,1-diyl)bis(4-methylpyridinium) dimethanesulfonate (preparation given). Formulation of a hair dye containing

10-3

mol% of I is disclosed.

IT 950782-56-6D, salts

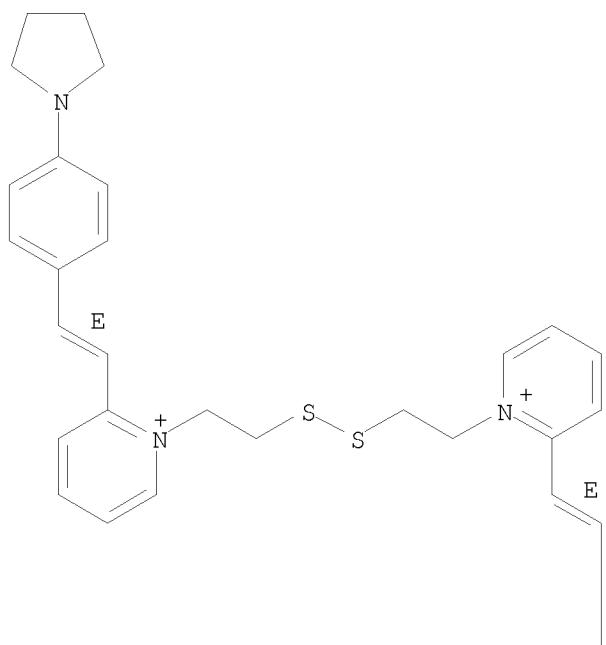
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair dye composition containing thiol/disulfide fluorescent dye comprising heterocycle, with internal cationic charge)

RN 950782-56-6 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Double bond geometry as shown.

PAGE 1-A



PAGE 2-A

